



HOMES OF STEEL

Digitized by:



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:

Jim Draeger

HOMES OF STEEL

PATENTS APPLIED FOR

STEEL FRAME HOUSE COMPANY

Subsidiary of McCLINTIC-MARSHALL CORPORATION

OLIVER BUILDING, PITTSBURGH, PENNA.

Copyright, 1929
STEEL FRAME HOUSE CO.
Pittsburgh, Pa.

HOMES OF STEEL

HE modern homes of today are built with the same steel-ribbed, steel-constructed framework used in the erection of giant skyscrapers. And there is no reason why every home—large or small—cannot have the same advantages which steel construction gives to these great structures. *“Steel Framing” is the practical and economical method by which this is possible.*

“Steel Framing” is the strongest and most rigid framework obtainable for residential construction. It will not warp or shrink or settle to cause plaster cracks in walls or ceilings. It is firesafe and provides the greatest resistance to wind and storm.

This method of permanent construction permits the widest range in the selection of the architectural design of a home—it meets all of the special requirements of each individual residence from foundation to roof.

A home built with “Steel Framing” is durable far beyond the years of a home of ordinary construction and the owner is assured of a property value greater and more lasting than he can get in any other way.

STEEL FRAMING

HE houses illustrated in this book are designed to be built of "Steel Framing". These designs have been developed for the most economical use of "Steel Framing", as well as for the accompanying applied materials, and make available for the home builder a strong, durable, non-shrinkable and fire-safe home. Here you are offered architectural distinction and charm not ordinarily found in medium-priced residences, and at a cost which is very moderate when the many advantages of this type of construction are considered.

Drawings and Specifications

Complete sets of working drawings, specifications and details will be furnished with all orders for "Steel Framing" for the homes shown in this book. Reversed plans for all designs are also available. Erection drawings and full instructions for erecting the framework will be furnished with all orders for "Steel Framing."

THE CONSTRUCTION

HE entire superstructure is framed of standard units of "Steel Framing". The "Steel Framing" includes all structural members throughout the building, and consists of all framing for exterior walls, interior partitions, floors, ceilings and roofs, porch posts, cellar posts and girders, and lintels for masonry openings.

Foundation walls may be built of concrete, cement block, stone or other usual forms of masonry construction. They should rest on solid foundations and be strongly built.

The exterior walls may be finished with either brick or stone veneer or stucco, applied over insulated sheathing in the usual manner. The sheathing is attached to the "Steel Framing" by clips.

A welded steel fabric with waterproof paper backing attached directly to the "Steel Framing" may also be used. This fabric forms a base for stucco, or the stone or brick veneer may be applied to this construction, the veneering secured to the fabric with steel ties and the

space between the veneer and fabric filled solid with mortar.

Sub-floors may be concrete slabs laid on top of the steel beams, reinforced with welded steel waterproof paper-backed fabric, reinforcing rods or self-centering metal lath, or poured over ribbed sheet metal decking; with wood sleepers embedded in the concrete to receive finished wood floors. A combination gypsum hollow tile and concrete beam construction may also be used for sub-floors, or, for the greatest economy, tongued and grooved lumber may be used.

Interior plastering is applied over welded steel paper-backed fabric, metal lath, or gypsum board or other plaster base attached to the "Steel Framing" by clips manufactured for this purpose. The plaster finish may be any of the customary materials now on the market.

The roof may be of plank sheathing, or, where a fire-proof structural roof is desired, pre-cast gypsum roof slabs or a nailing concrete composition may be applied over the rafters of the "Steel Frame" on rib metal lath, ribbed sheet metal decking, or similar reinforcing material. The finished roofing may be slate, asbestos shingles, tile or metal roofing applied directly to any of the above forms of roofs. Cornices may be either wood or sheet metal.

Windows may be steel or wood, in conformity with the various designs. Steel casement windows are set in wood bucks secured to the "Steel Framing", with wood or plaster jambs as desired. Wood window frames are set and attached directly to the "Steel Frame". Sills may be brick, stone, or pre-cast concrete. Window sills in stucco buildings may be brick, slate, tile or sheet metal.

Doors may be set in sheet metal door bucks with hanging jambs of wood; or wood bucks secured directly to the "Steel Frame" may be used and covered with wood or Kalamein trim. Combination steel bucks and trim also may be used.

Stairs may be wood or steel, the steel stairs providing for wood, slate, or other form of tread material.

Finished floors may be wood or linoleum. Tile floors for bathrooms and other rooms where desired may be laid directly on any of the sub-floors. Wood finish flooring is nailed to the wood sleepers in the floor slabs, the linoleum flooring being cemented directly to the floor slab. Interior finish may be of wood or metal secured to the grounds in the usual manner, the grounds being attached to the "Steel Frame" with sheet metal clips.

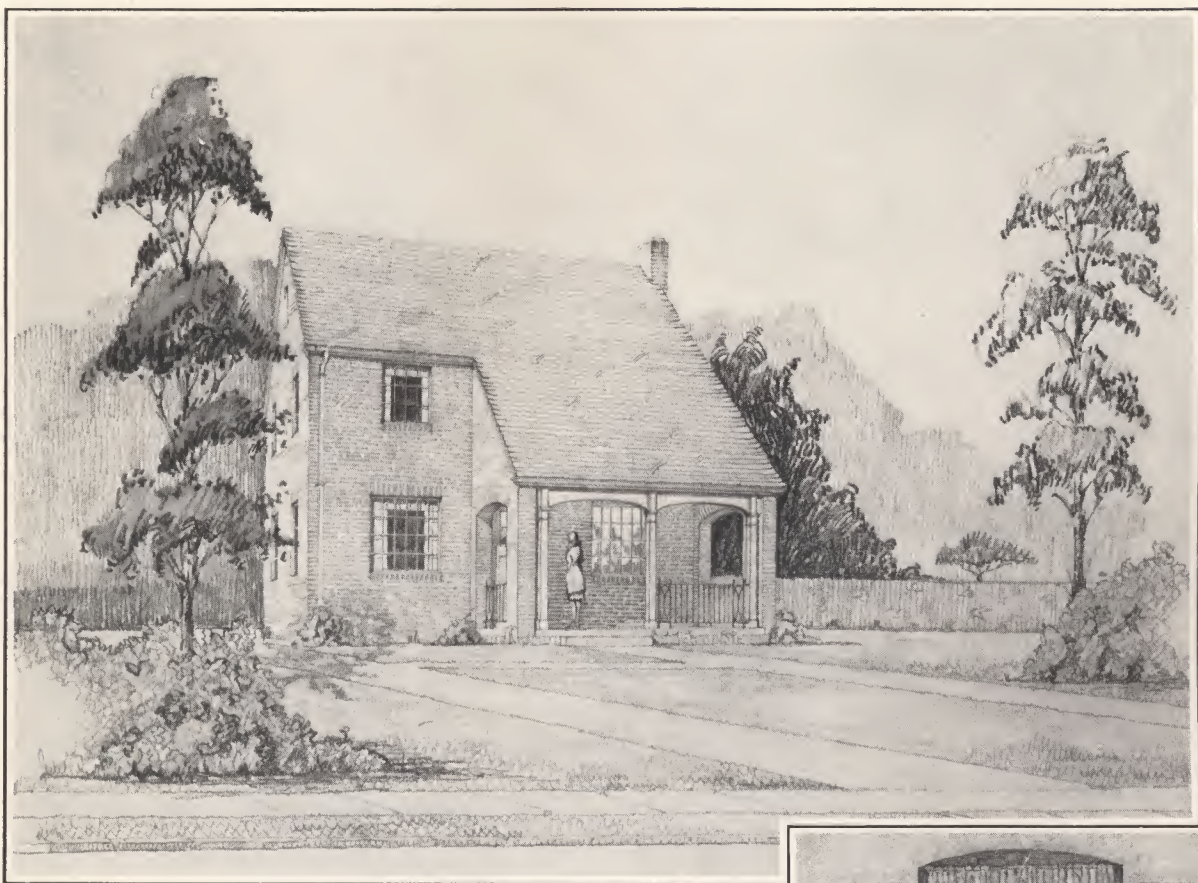
Provisions for the plumbing, heating and wiring installations are made in the "Steel Framing" in accordance with general regulations governing their installations;

and where special regulations apply, the "Steel Framing" may be adjusted for those conditions where such information is given. Heating may be warm air, steam or hot water as desired.

Wiring for the electrical work to be done with flexible steel conduit; or in localities where other materials are required, loom or rigid conduit may be used.

Bolts and Attachments

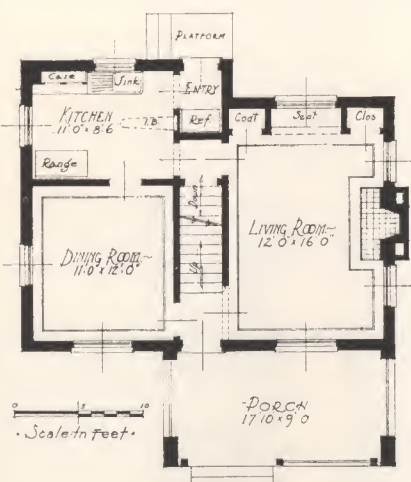
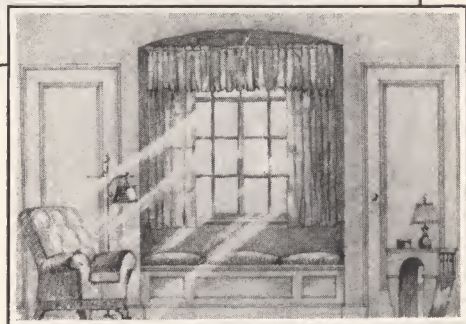
The Steel Frame House Company furnishes the "Steel Framing" complete, including all bolts and other attachments required to erect the structural framework of the building. All materials required to finish the building may be purchased through local dealers by the contractors. Clips for attachments of materials to the "Steel Framing" may be purchased directly from this Company, when not supplied by the manufacturers with their materials.



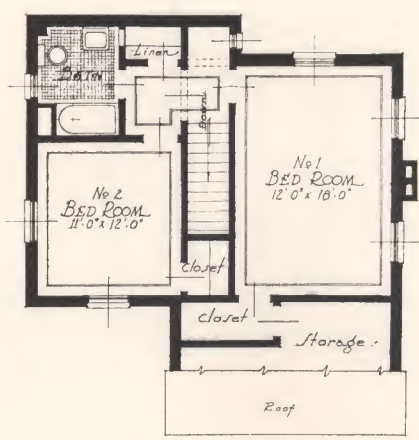
DESIGN 501-A B

Brick Veneer Exterior Walls 29'-0'' wide x 22'-8'' deep—19,650 cubic feet.

Drawings for this design may also be obtained for stucco exterior walls.



FIRST FLOOR PLAN



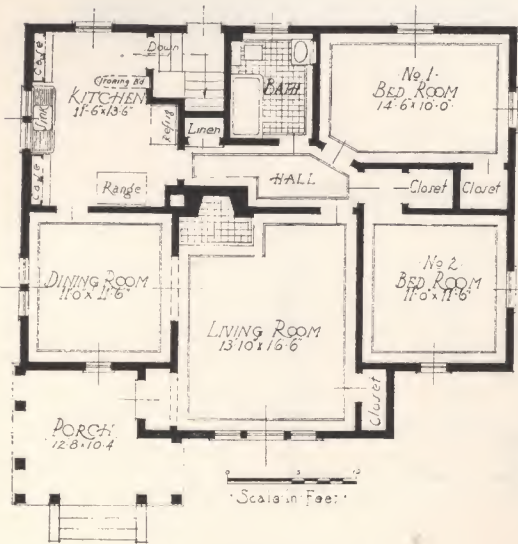
SECOND FLOOR PLAN



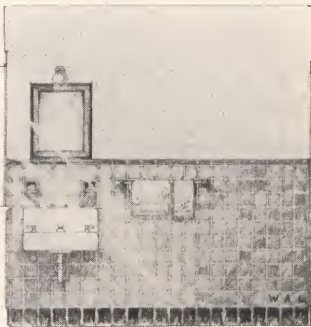
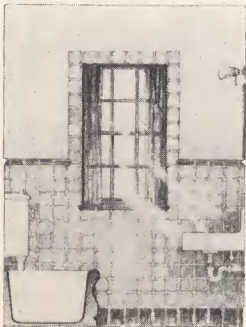
DESIGN 511-A S

Stucco Exterior Walls—38'-0" wide x 31'-8" deep—24,400 cubic feet.

Drawings for this design may also be obtained with brick or rubble stone veneer exterior walls.



FIRST FLOOR PLAN

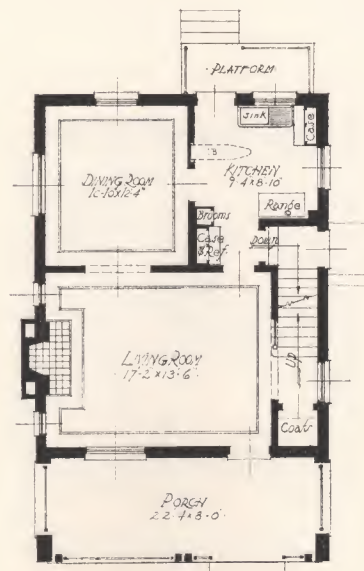
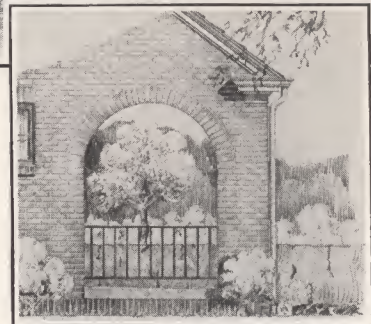




DESIGN 601-A B

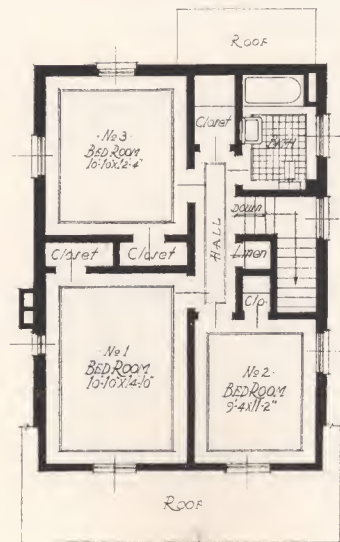
Brick Veneer Exterior Walls 22'-4" wide x 28'-0" deep—20,510 cubic feet.

This design can also be furnished for stucco exterior walls.

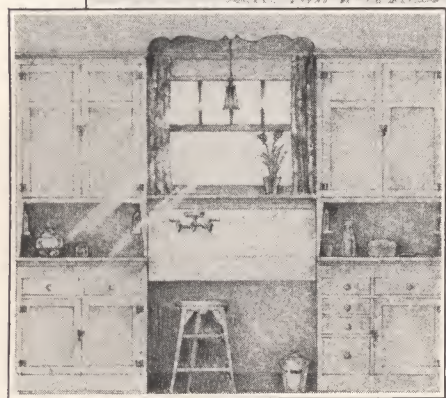


FIRST FLOOR PLAN

• Scale 1/4" = 1' •



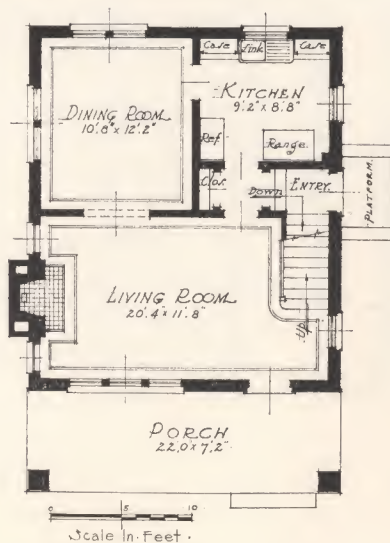
SECOND FLOOR PLAN



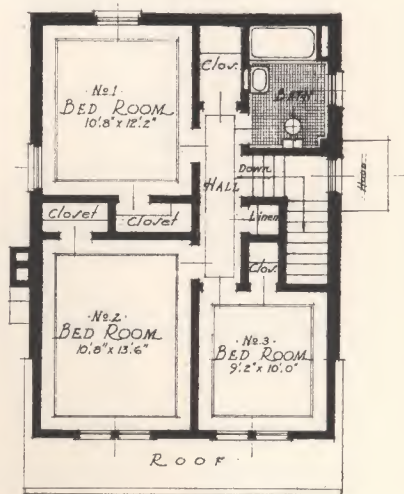
DESIGN 601-B B

Brick Veneer Exterior Walls 22'-0" wide x 26'-0" deep—18,810 cubic feet.

Drawings of this design can also be furnished for stucco exterior walls.



FIRST FLOOR PLAN



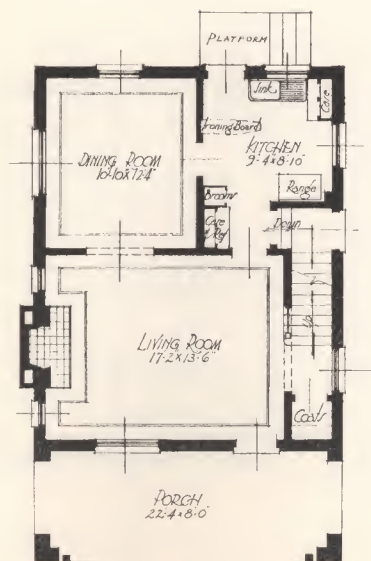
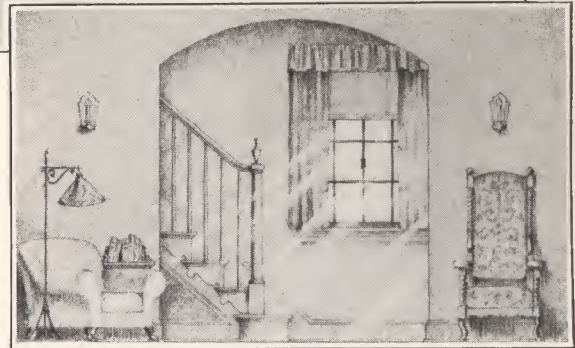
SECOND FLOOR PLAN



DESIGN 602-A B

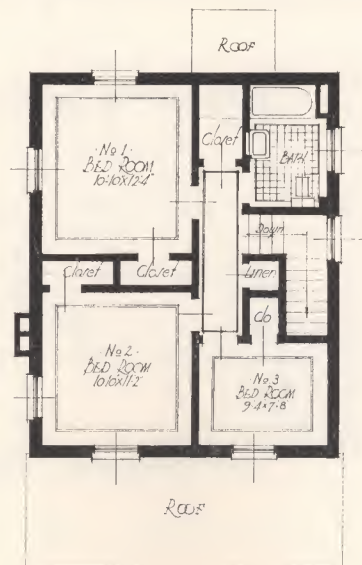
Brick Veneer Exterior Walls 22'-4" wide x 28'-0" deep—19,790 cubic feet.

This design may also be obtained for stucco exterior walls.

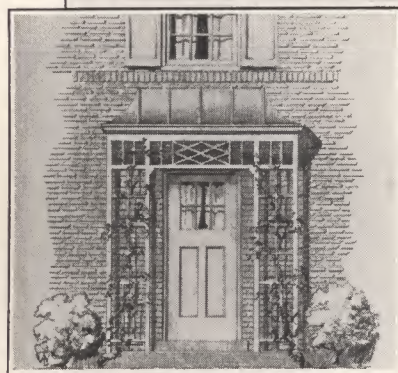


FIRST FLOOR PLAN

Scale in Feet



SECOND FLOOR PLAN



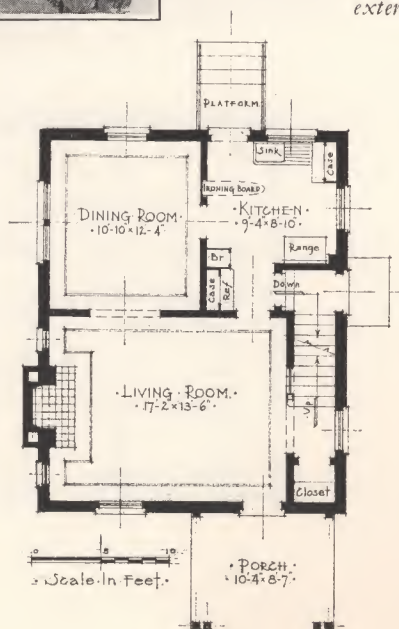
DESIGN 602-C B-1

Brick Veneer Exterior Walls 22'-4" wide
x 28'-0" deep—19,115 cubic feet.

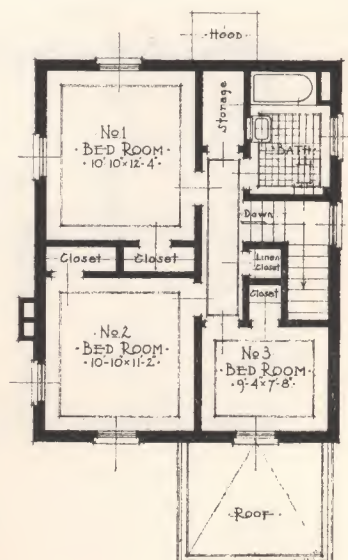
DESIGN 602-C B

(Without Porch)
18,675 cubic feet.

*This design may also be obtained for stucco
exterior walls.*



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

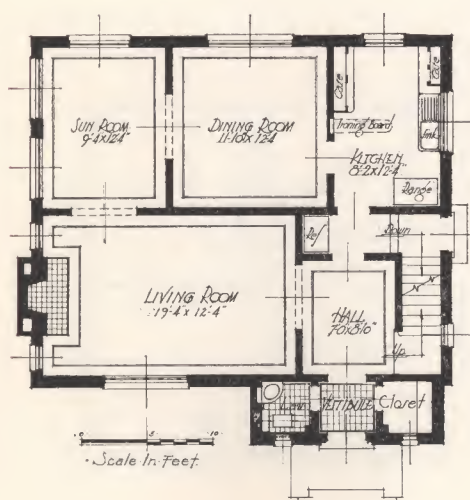
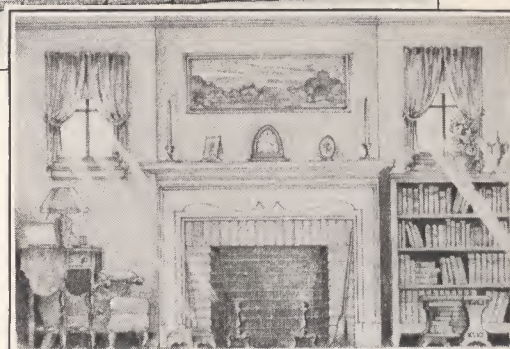
DREAMED OF AS THE EXPRESSION OF YOUR OWN IDEAS . . .



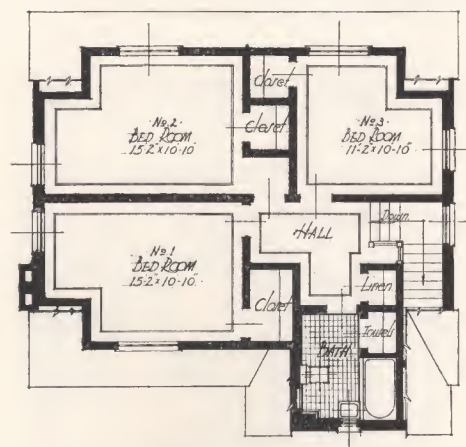
DESIGN 606-A B

Brick Veneer Exterior Walls 32'-0'' wide x 31'-4'' deep—24,600 cubic feet.

Drawings of this design may also be obtained with stucco or with rubble stone veneer walls.

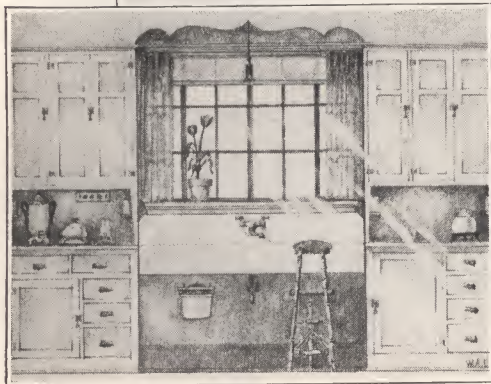


FIRST FLOOR PLAN



SECOND FLOOR PLAN

ONLY NOW EXPRESSED IN *Steel*: STRONGER . . . MORE DURABLE . . .



DESIGN 611-A B

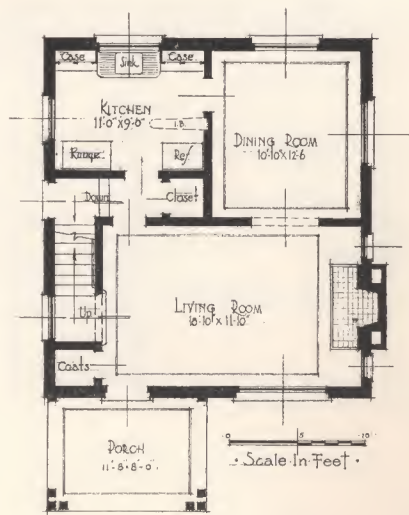
Brick Veneer Exterior Walls 24'-0" wide x 26'-6" deep—19,415 cubic feet.

Drawings for this design may be obtained for stucco or rubble stone veneer exterior walls.

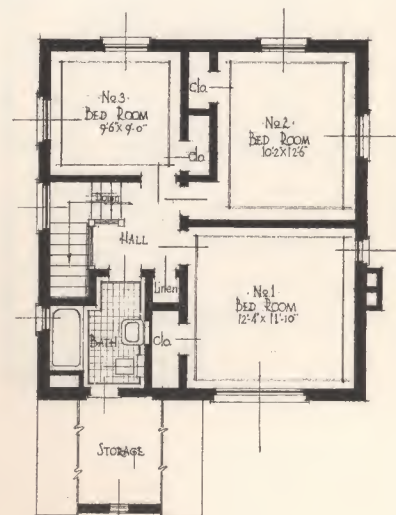
DESIGN 611-B B

(Wider front design)

26'-0" wide x 26'-6" deep—21,000 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



DESIGN 612-A B

(Without Porch)

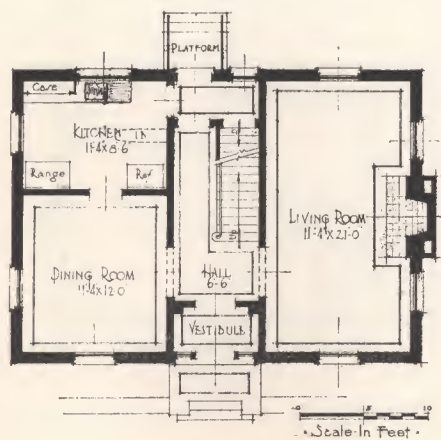
Brick Veneer Exterior Walls 32'-0" wide x 22'-8" deep—21,750 cubic feet.

This design may also be obtained for rubble stone veneer exterior walls.

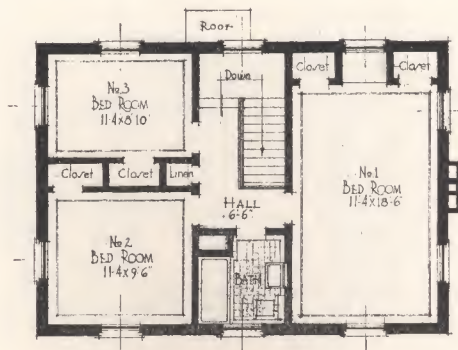
DESIGN 612-A B-1

(With Porch)

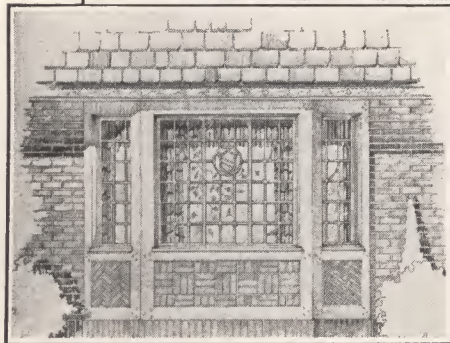
22,660 cubic feet.



FIRST FLOOR PLAN



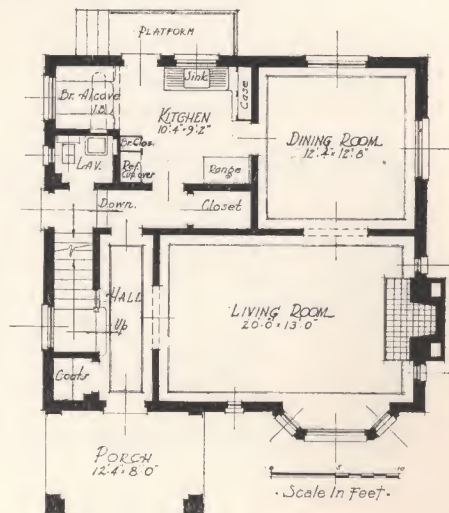
SECOND FLOOR PLAN



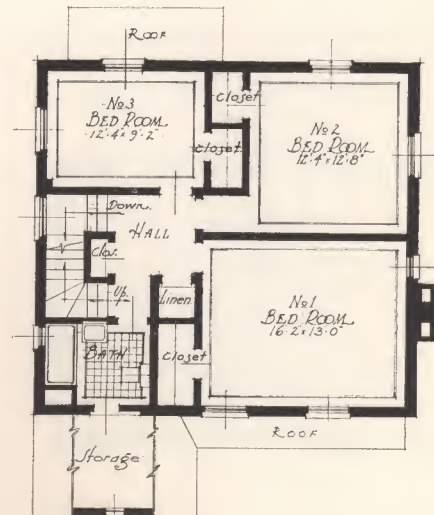
DESIGN 613-A B

Brick Veneer Exterior Walls 30'-0" wide x 28'-0" deep—26,250 cubic feet.

Drawings for this design may also be obtained for stucco or rubble stone veneer exterior walls.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

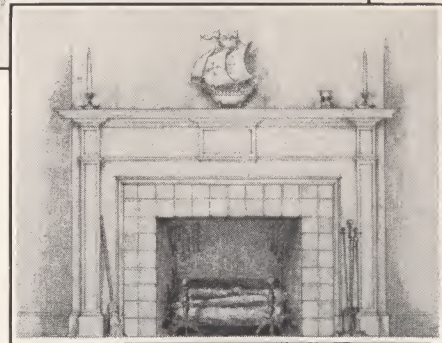


DESIGN 613-B B-1

(With Porch)

Brick Veneer Exterior Walls 30'-0" wide x 28'-0" deep—25,835 cubic feet.

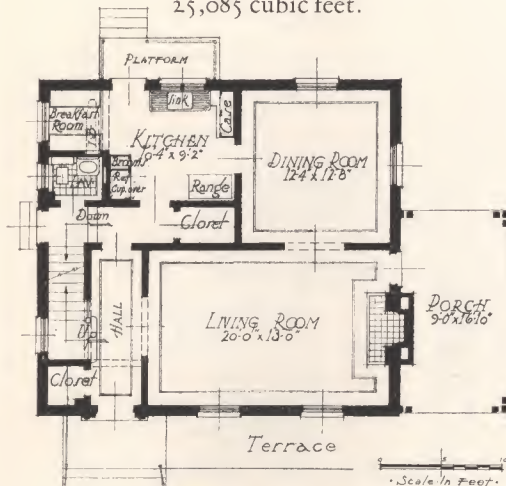
This design may also be obtained for stucco or rubble stone veneer exterior walls.



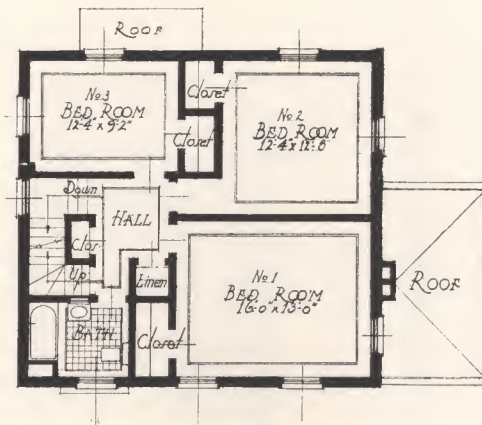
DESIGN 613-B B

(Without Porch)

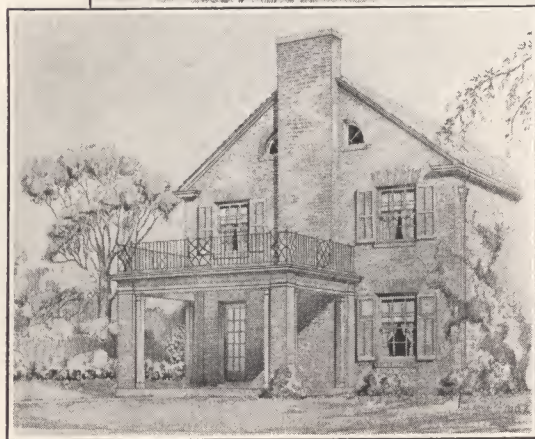
25,085 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



DESIGN 614-A B

(Without Porch)

Brick Veneer Exterior Walls 34'-0" wide by 26'-0" deep—26,600 cubic feet.

Drawings of this design can be furnished for stucco or rubble stone veneer exterior walls.

DESIGN 614-A B-1

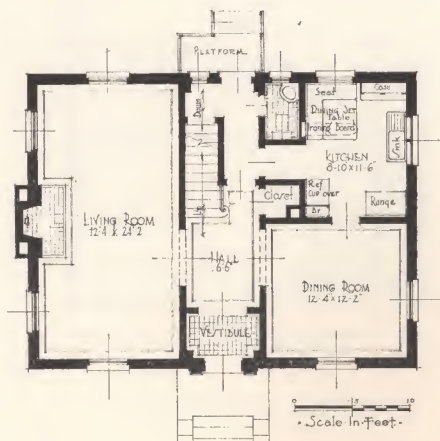
(With Porch)

27,460 cubic feet.

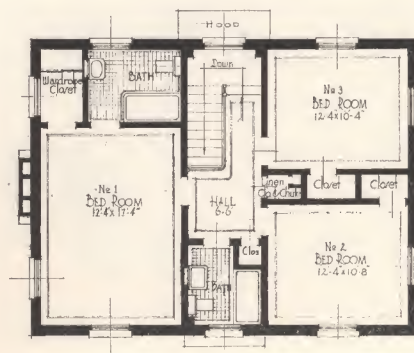
This design may be obtained providing two finished rooms in attic.

With porch Design 614-A B-21—28,365 cubic feet.

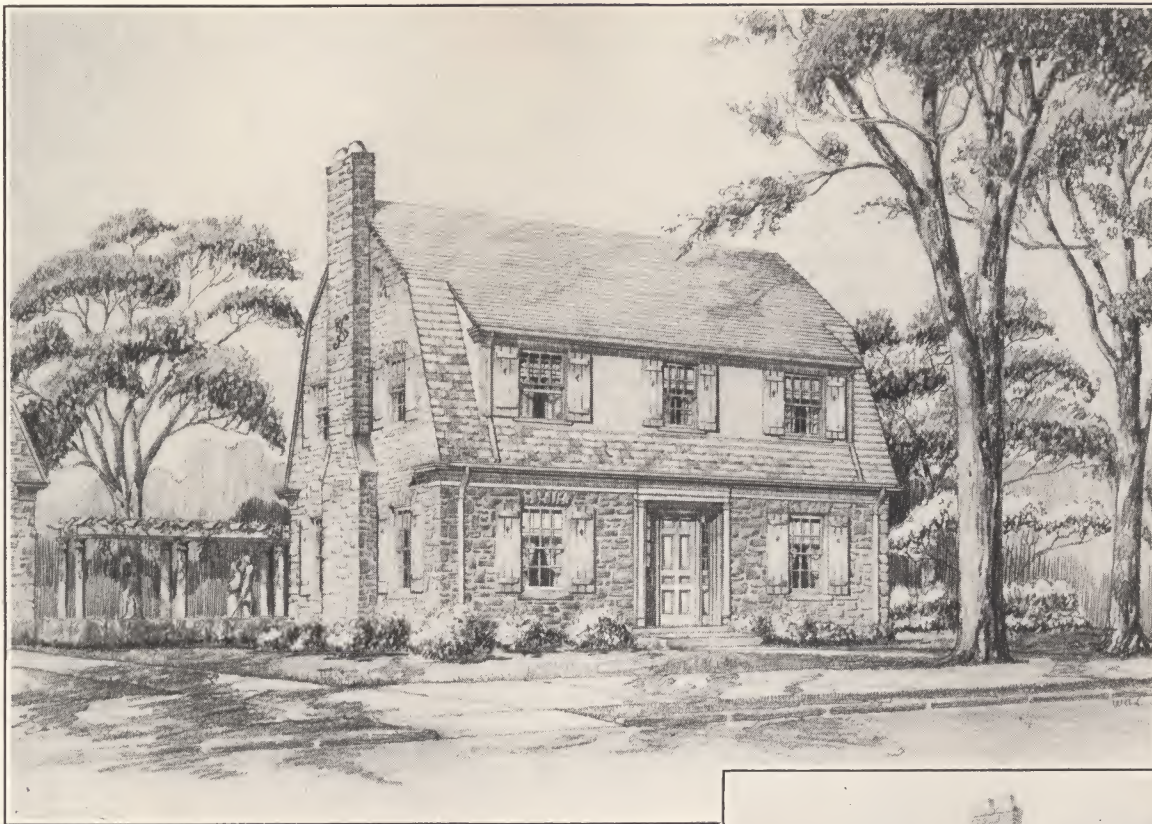
Without porch Design 614-A B2—27,500 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



DESIGN 614-B M

(Without Porch)

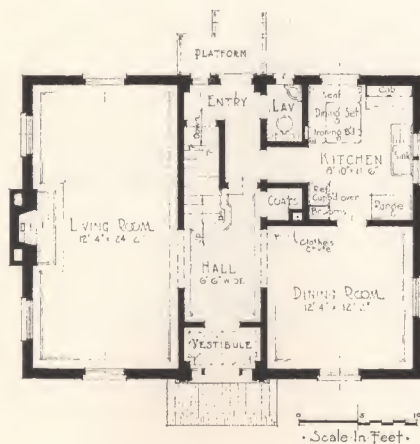
Rubble Stone Veneer Exterior Walls.
35'-0" wide x 27'-0" deep—26,970
cubic feet.

*Drawings for this design may also be ob-
tained for brick veneer exterior walls.*

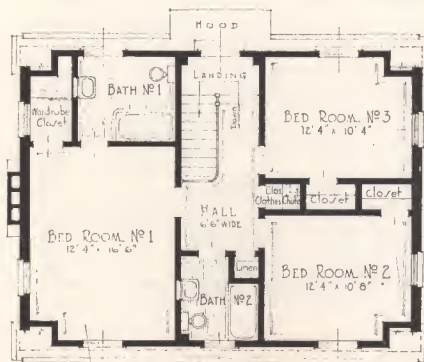
DESIGN 614-B M-1

(With Porch)

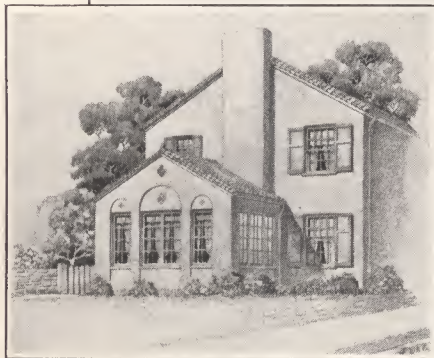
28,200 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



DESIGN 614-CS

(Without Sun Room)

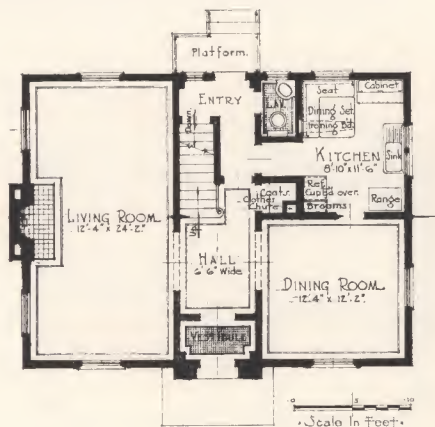
Stucco Exterior Walls 33'-4" wide x
25'-4" deep—24,420 cubic feet.

Drawings for this design may also be obtained for brick veneer exterior walls.

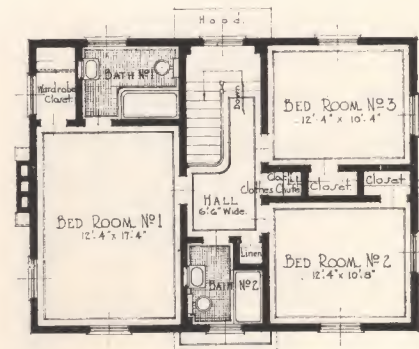
DESIGN 614-CS-1

(With Sun Room)

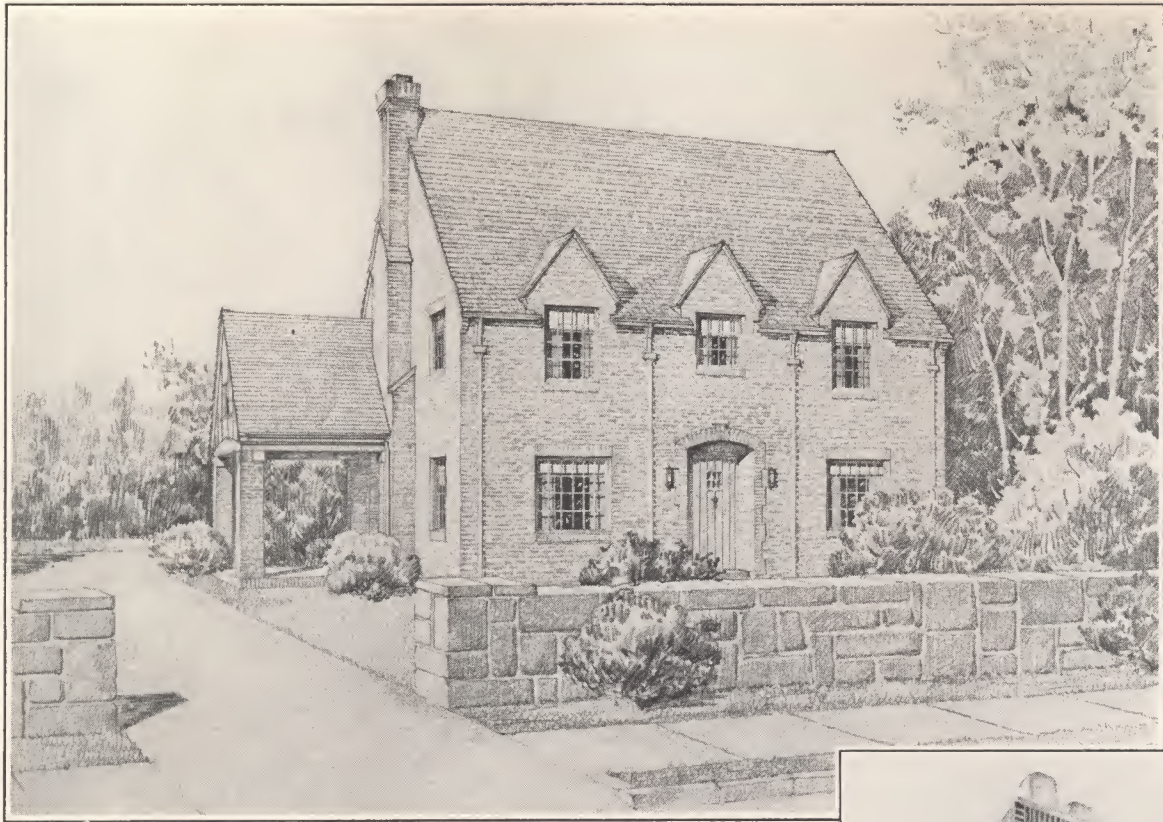
26,450 cubic feet.



FIRST FLOOR PLAN



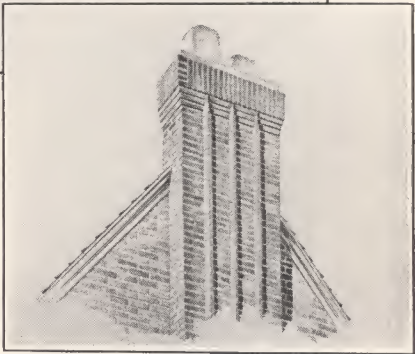
SECOND FLOOR PLAN



DESIGN 614-DB-1

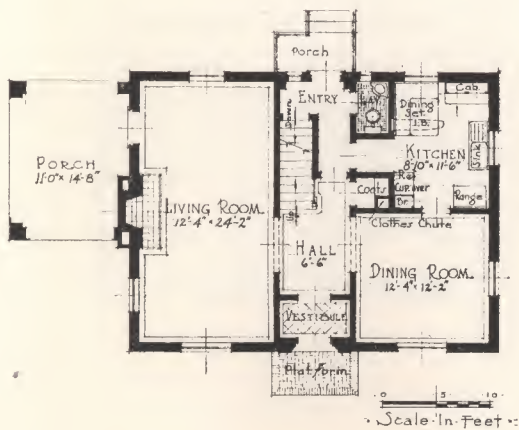
(With Porch)
Brick Veneer Exterior Walls 34'-0''
wide x 26'-0'' deep—28,625 cubic feet.

*This design may also be furnished for
stucco or rubble stone veneer exterior walls.*

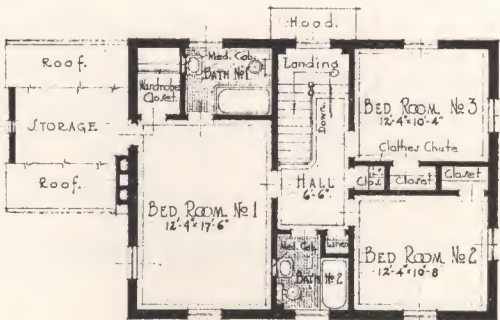


DESIGN 614-D B

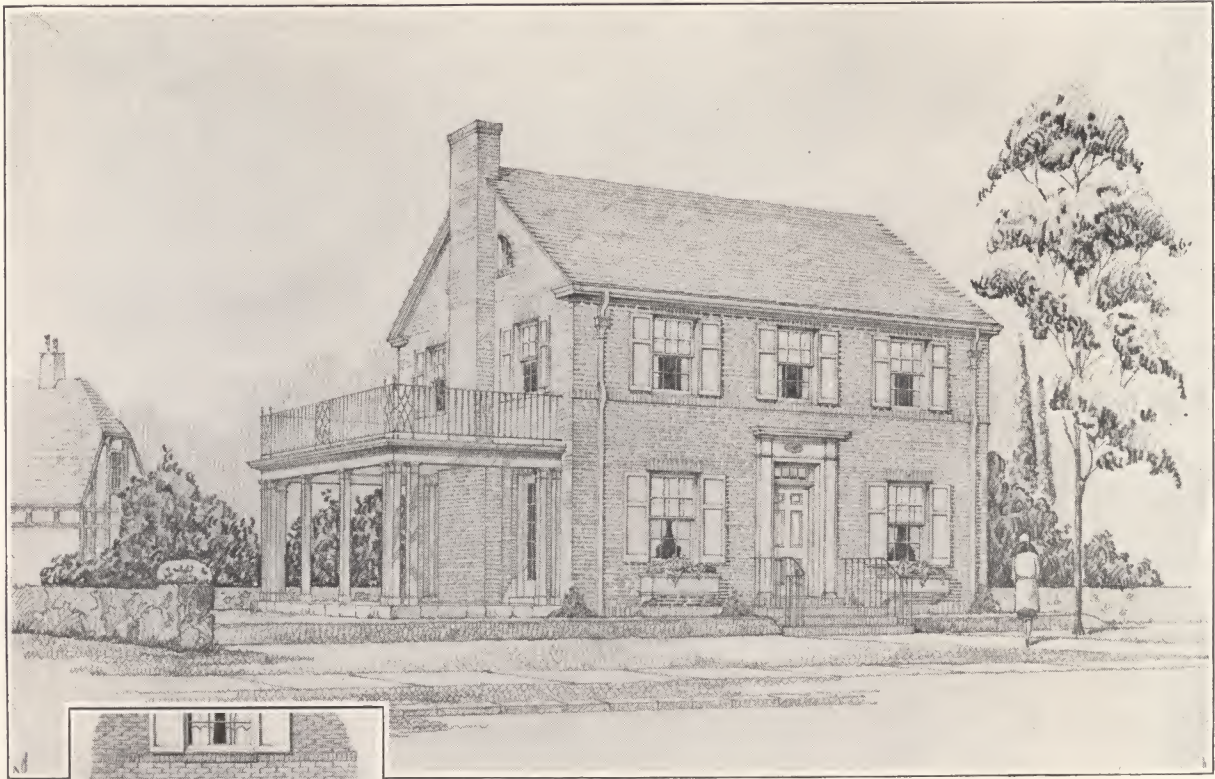
(Without Porch)
27,500 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



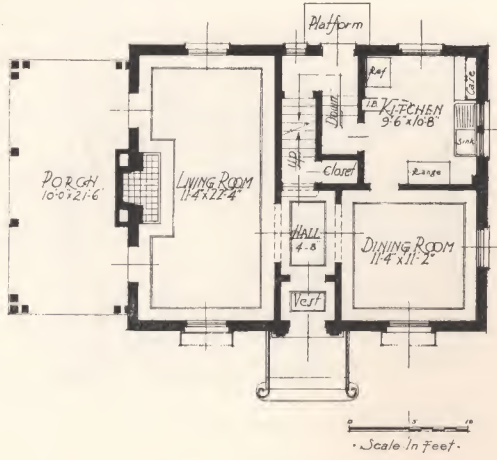
DESIGN 615-A B-1

(With Porch)
Brick Veneer Exterior Walls 30'-0'' wide x 24'-0'' deep—22,655 cubic feet.

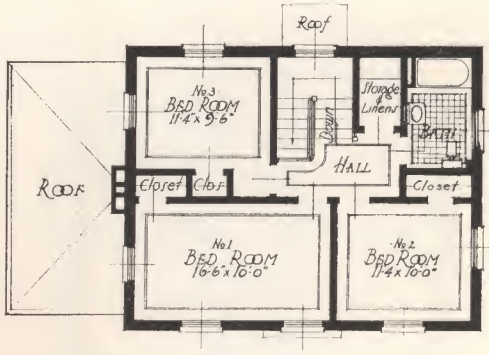
This design may also be obtained for stucco or rubble stone veneer exterior walls.

DESIGN 615-A B

(Without Porch)
21,590 cubic feet.

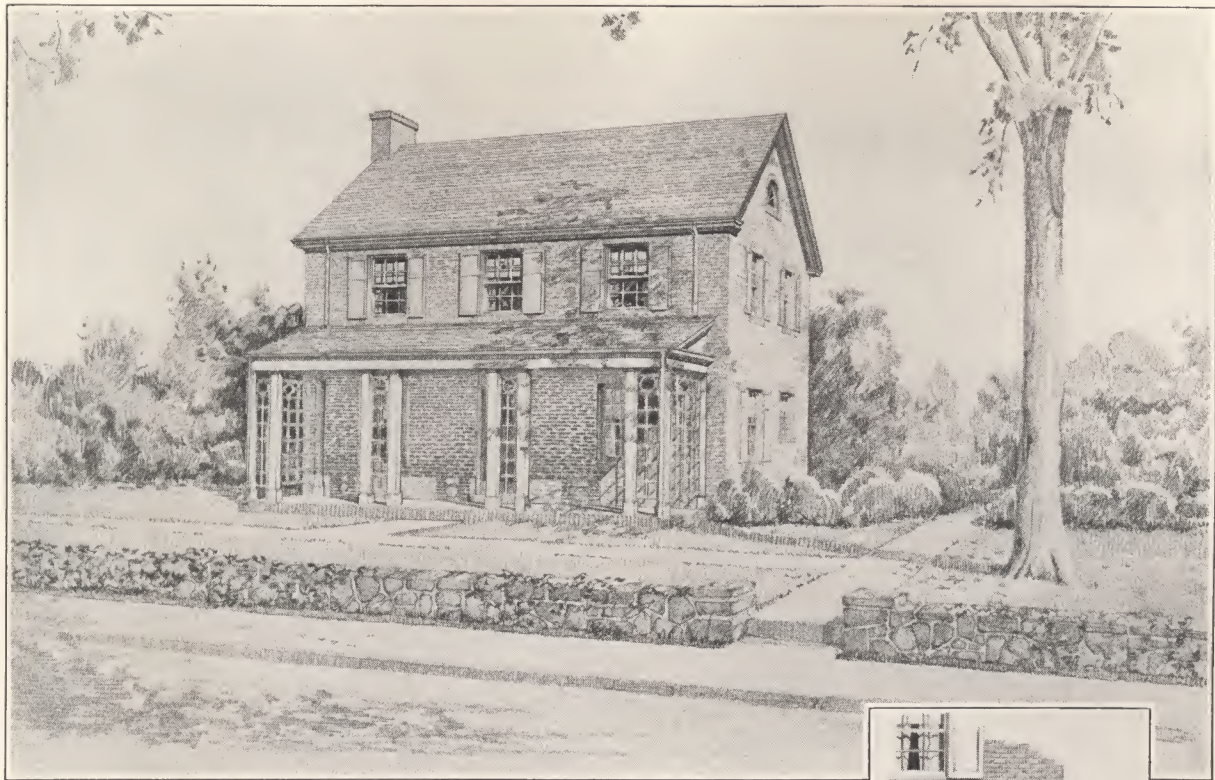


FIRST FLOOR PLAN



SECOND FLOOR PLAN

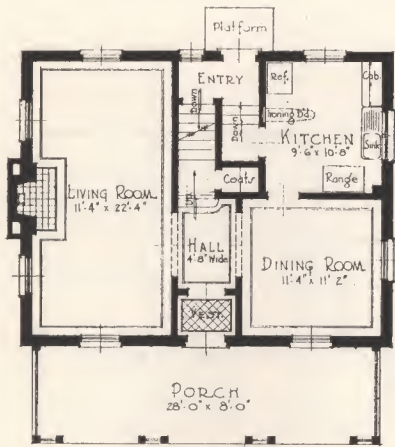
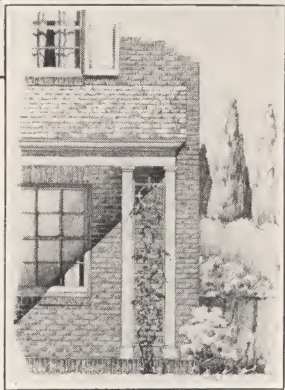
NOT ORDINARILY FOUND IN MEDIUM PRICED RESIDENCES.



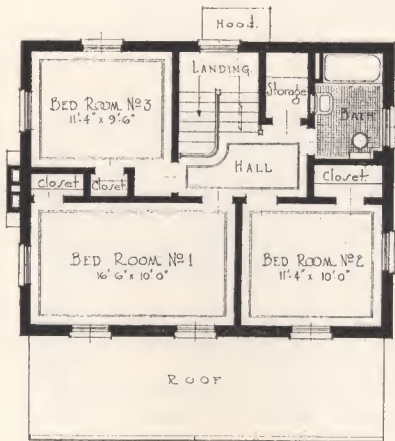
DESIGN 615-B B

Brick Veneer Exterior Walls 30'-0" wide x 24'-0" deep—22,730 cubic feet.

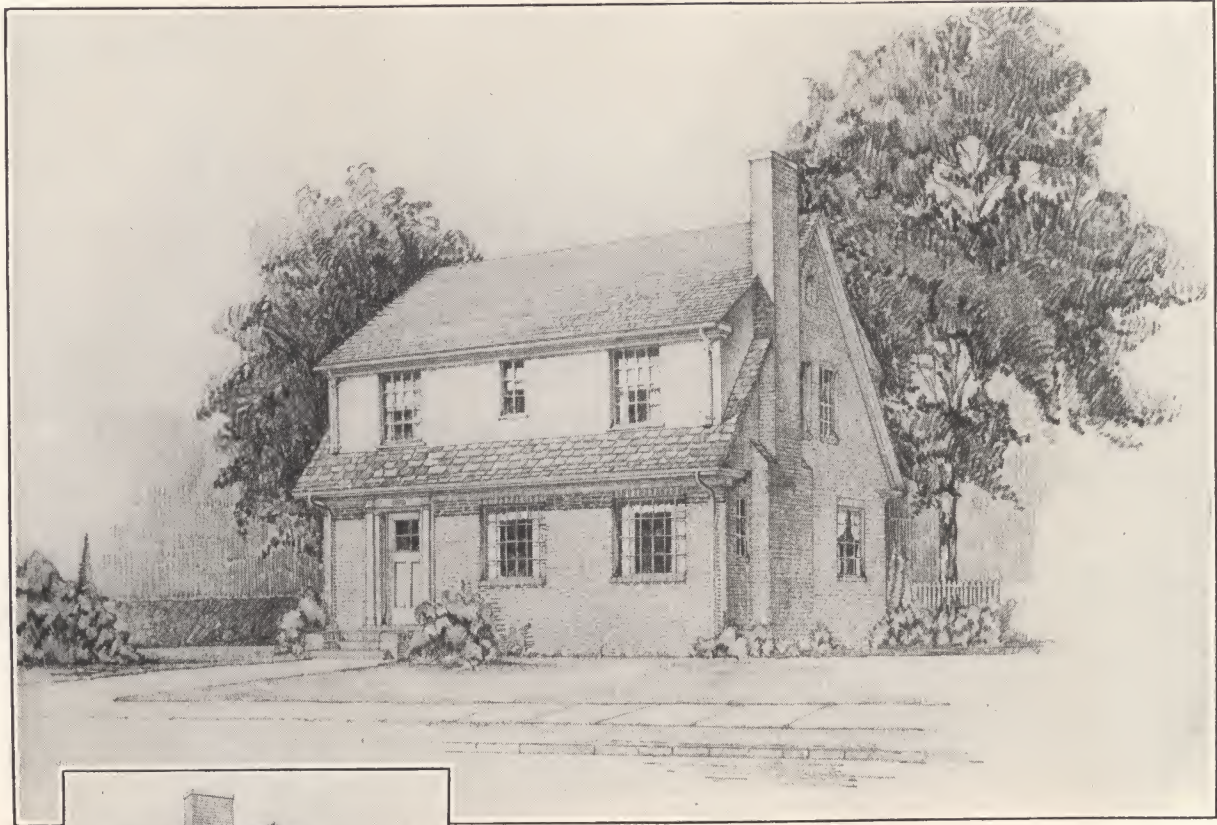
Drawings of this design may also be secured for stucco or rubble stone veneer exterior walls.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



DESIGN 701-A B

(Without Sun Porch)

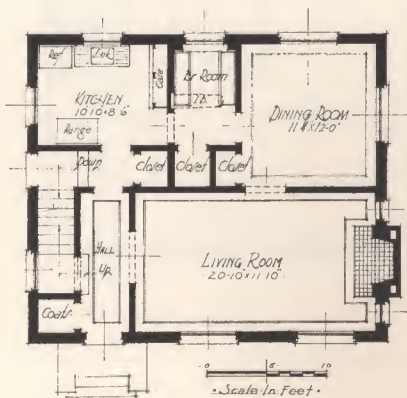
Brick Veneer Exterior Walls 30'-0" wide x 26'-0" deep—22,510 cubic feet.

Drawings of this design may also be obtained for stucco or rubble stone exterior walls.

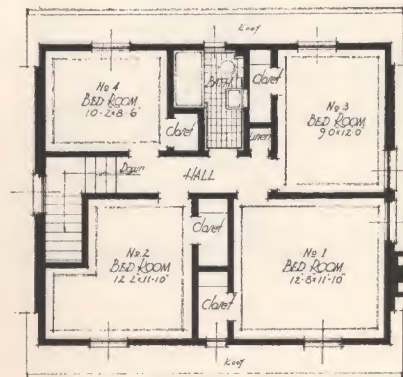
DESIGN 701-A B-1

(With Sun Porch)

25,190 cubic feet.



FIRST FLOOR PLAN



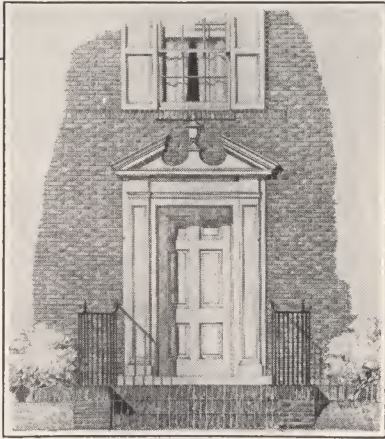
SECOND FLOOR PLAN



DESIGN 7II-A B-1

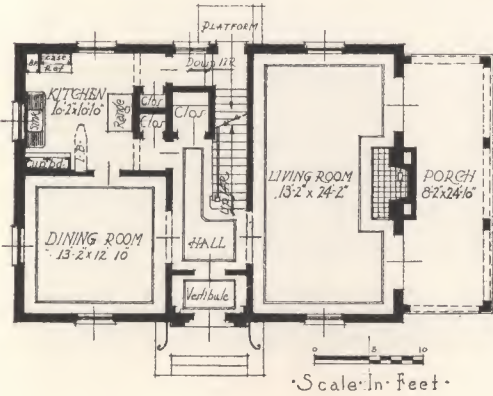
(With Porch)
Brick Veneer Exterior Walls. 36'-0'' wide x 26'-0'' deep—28,970 cubic feet.

Drawings of this design may also be obtained for stucco or rubble stone veneer exterior walls.

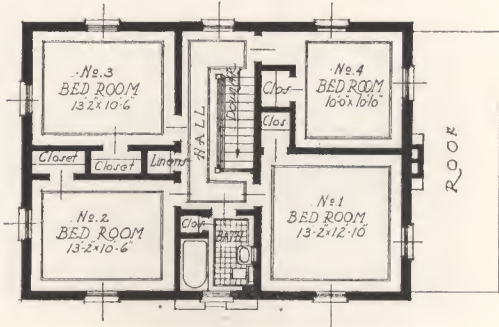


DESIGN 7II-A B

(Without Porch)
27,910 cubic feet.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

INFORMATION FOR ORDERING

N account of the great variation in prices prevalent throughout the country and the wide range of selection of various materials entering into the finished building, it is impossible for this Company to quote finished costs for these homes.

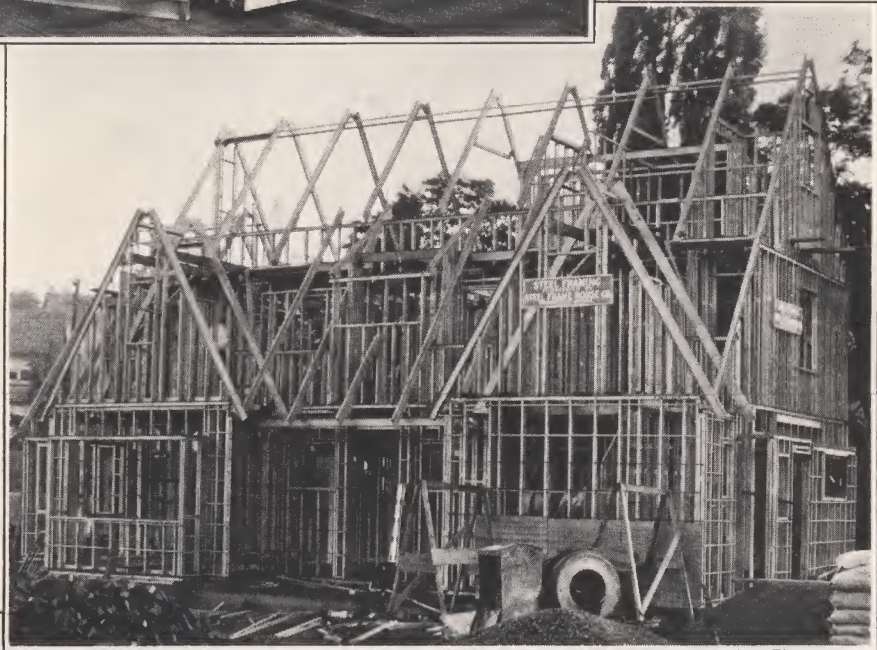
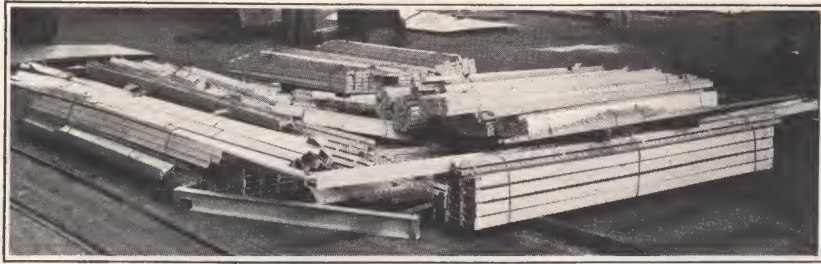
For the convenience of the customer in securing local prices on his home before ordering the "Steel Framing", the Steel Frame House Company will forward complete sets of working drawings, specifications and details upon receipt of a deposit of \$10.00 for each set required. This deposit will be refunded upon return of the drawings and specifications in good condition or it will be applied against the cost of the "Steel Framing" when it is ordered.

Prices of the "Steel Framing" for all homes illustrated will be furnished on request.

In requesting prices please state:

1. The number of the design selected.
(Note different type numbers for designs with or without porches.)
2. The exterior finish material desired.
(Lintels are furnished for all openings in brick or stone masonry walls.)

REVERSED PLANS FOR ALL DESIGNS ARE ALSO AVAILABLE.



Residence for Wm. H. Shaffer, Jr., Mt. Lebanon, Pa.
Lyon & Taylor, Architects, New York City

3. Floor construction desired.
4. Roof construction desired.
5. Floor and roof live loads required by local building laws or ordinances.

(If no building regulations are in force, the "Steel Framing" for floors and roofs will be furnished allowing live loads of forty pounds for floors and thirty pounds for roofs normal to the surface.)

6. Point to which shipment will be made.

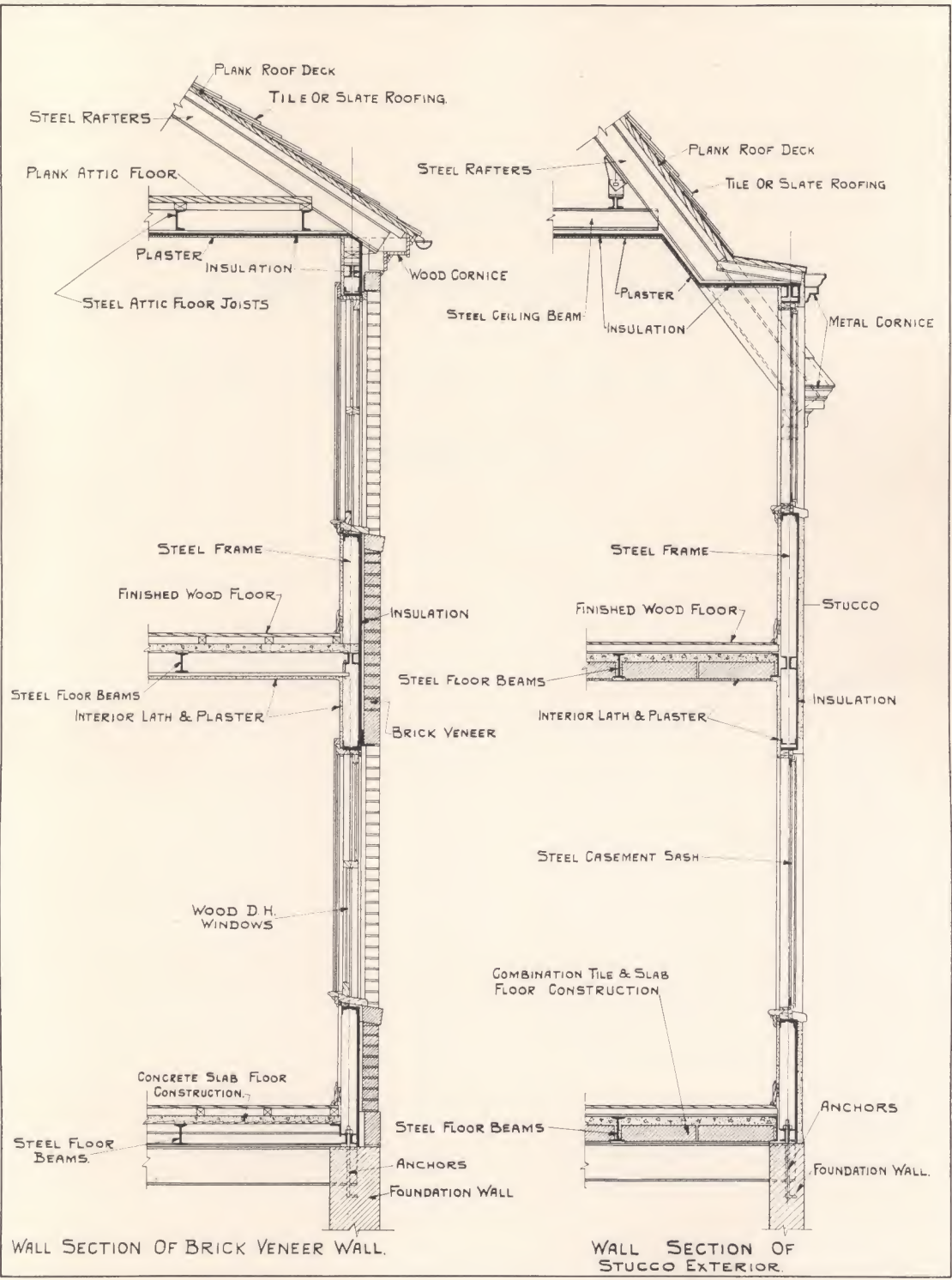
"Steel Framing" is adaptable to all classes of buildings three stories or under in height where floor and roof spans are not excessive, and may be of any type of design or arrangement. The Steel Frame House Company will gladly quote you prices on any type of design or plan submitted. Buildings need not be designed especially for "Steel Framing", the only requirement for furnishing "Steel Framing" being a complete set of architectural plans of the building.

STEEL FRAME HOUSE COMPANY

Subsidiary of McClintic-Marshall Corporation

OLIVER BUILDING, PITTSBURGH, PA.

LARGE AND SMALL HOMES BUILT LIKE SKYSCRAPERS!



Whatever
Kind or Type of home you plan
S T E E L F R A M I N G
is adaptable



HOMES OF STEEL

STEEL FRAME HOME

in Rochester, N. Y.

Sponsored By
JOURNAL-AMERICAN



GENESEE BRIDGE COMPANY

Distributors

P. O. Box 42